IN THE CLAIMS:

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- 1. 27. (Cancelled)
- 28. (New) Congeneric, chlorinated or brominated, fluorinated compounds having two benzene rings in the base structure thereof, selected from the group consisting of:
 - 4'-fluoro-2,3',4-tribromodiphenylether,
 - 4'-fluoro-2,3',6-tribromodiphenylether,
 - 4'-fluoro-2,3',4,6-tetrabromodiphenylether,
 - 4'-fluoro-2,3,3',4,5,6-hexabromodiphenylether,
 - 2'3,3',4,5,5',6,6'-octabromo-2,4'-difluoro-diphenylether,
 - 2, 4,4'-trichloro-3'-fluorobiphenyl,
 - 2',4',4-trichloro-3,5-difluorobiphenyl,
 - 4-methyl-2,2',5,6-tetrachloro-3'-fluoro-diphenylmethane,
 - 4-methyl-2,2',5,6-tetrachloro-3',5'-difluoro-diphenylmethane,
 - 4-methyl-2,2',5,6-tetrachloro-3,3'-difluoro-diphenylmethane,
 - 1,2,3,7,8,9-hexachloro-4-fluoro-dibenzofurane,
 - 1,2,3,7,8,9-hexachloro-4,6-difluoro-dibenzofurane,
 - 2,3,7,8-tetrachloro-1-fluoro-dibenzo-p-dioxin,

- 1,4,6,9-tetrachloro-2-fluoro-dibenzo-p-dioxin and
- 1,2,3,7,8,9-hexachloro-4,6-difluoro-dibenzo-p-dioxin.
- 29. (New) A method of manufacturing

But a first

- 4'-fluor-2,3',4-tribromodiphenylether;
- 4'-fluoro-2,3',6-tribromodiphenylether;
- 4'-fluoro-2,3',4,6-tetrabromodiphenylether, and
- 4'-fluoro-2,3,3',4,5,6-hexabromodiphenylether

by conversion of 3,3'-dibromo-4,4'

difluorodiphenyliodoniumchlorid with 2,4-dibromophenol,

2,6-dibromophenol, 2,4,6-tribromophenol and pentabromophenol.

- 30. (New) A method of analyzing analytic and organic compounds by using:
 - 4'-fluoro-2,3',4-tribromodiphenylether;
 - 4'-fluoro-2,3',4-tribromodiphenylether;
- 4'-fluoro-2,3',6-tribromodiphenylether;
- 4'-fluoro-2,3',4,6-tetrabromodiphenylether;
- 4'-fluoro-2,3,3',4,5,6-hexabromodiphenylether;
- 2'3,3',4,5,5',6,6'-octabromo-2,4'-difluoro-diphenylether;
- 2, 4,4'-trichloro-3'-fluorobiphenyl;
- 2',4',4-trichloro-3,5-difluorobiphenyl;

- 4-methyl-2,2',5,6-tetrachloro-3'-fluoro-diphenylmethane;
- 4-methyl-2,2',5,6-tetrachloro-3',5'-difluoro-diphenylmethane;

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- 4-methyl-2,2',5,6-tetrachloro-3,3'-difluorodiphenylmethane;
- 1,2,3,7,8,9-hexachloro-4-fluoro-dibenzofurane;
- 1,2,3,7,8,9-hexachloro-4,6-difluoro-dibenzofurane;
- 2,3,7,8-tetrachloro-1-fluoro-dibenzo-p-dioxin;
- 1,4,6,9-tetrachloro-2-fluoro-dibenzo-p-dioxin, and
- 1,2,3,7,8,9-hexachloro-4,6-difluoro-dibenzo-p-dioxin.
- 31. (New) A method of application according to claim 30, characterized in that the analytical compound is used in halogen organic compounds.
- 32. (New) The method according to claim 31, comprising using the compounds
 - as intern standards or surrogate standards which together with their base compounds undergo physical, chemical and/or biological processes and are subsequently detected and/or analyzed together with the processes or separately from the processes;

as external standards, which instead of their base compounds undergo physical, chemical and/or biological processes for the purpose of calibrating these processes and are analyzed and/or detected separately from the base compounds;

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- and/or undergo instead of their base compounds chemical and/or biological processes as model compounds for the purpose of detecting reaction mechanisms whose reaction products are detected and/or analyzed.
- 33. (New) The method according to claim 32, wherein the base compounds are the congeneric, chlorinated and brominated diphenylethers, biphenyls, diphenylmethane, dibenzofurane, and dibenzo-p-dioxin.